

GREATER CAPACITY CUTTING SAW

ABSTRACT

A high capacity miter saw includes a miter base extending substantially in a horizontal direction. From the miter base, a first supporting arm rises in a substantially vertical direction. A proximal end of the first supporting arm is attached to the miter base. A distal end of the first supporting arm has a first pivot point. A second supporting arm is coupled to the first supporting arm through the first pivot point. The second supporting arm pivots about the first pivot point. The other end of the second supporting arm supports a rotary cutting blade and motorized gearbox. The saw blade is extendable such that the rotary point reaches a minimum vertical height from the miter base that is slightly greater than, equal to, or lower than a vertical height from the miter base to the first pivot point. A substantially cylindrical motorized gearbox is attached to the side of the rotary saw blade and is shaped and oriented so as to maximize the clearance between the gearbox and the material being sawed.